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SATIN

...An Experimental System for High-Altitude Air Traffic Control

Under a contract with the Federal Aviation Agency and jointly supported by the Department of the Air Force, MITRE is designing and implementing an experimental en route Air Traffic Control system. The system, called SATIN (for SAGE Air Traffic Control Integration), utilizes area control techniques to provide positive separation of all high-altitude en route traffic regardless of the route chosen or navigation used.

Through application of a SAGE digital computer and its associated radar, beacon, and radio network, SATIN permits inclusion of both the Boston and New York centers into a single high-altitude control area. The system automatically correlates radar and beacon data with flight plan information to establish a current position for each aircraft under control. Conflict prediction takes place automatically as does the transfer of information for intra-and inter-center coordination.

Initial parts of the experimental system are now in operation with major testing scheduled for next year.

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